Asymptotic behaviour of $N_\kappa^{(\infty)}$-functions

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In this talk I will consider generalised Nevanlinna functions for which infinity is the only generalised pole of non-positive type. Such functions have various representations; one of these can be viewed as a regularised Cauchy transform of a measure whose distribution function grows at most polynomially. I will present Tauberian and Abelian theorems that relate the growth of the generalised Nevanlinna function at infinity to the growth of the distribution function of the representing measure.

The talk is based on joint work with Harald Woracek.